

The properties of soft butadiene-nitrile rubbers and... 26990 S/138/61/000/005/004/006
AO51/A129

it in other properties. The soft SKN rubbers were tested under industrial conditions used in commercial articles at the rubber article plants. The authors conclude that vulcanizates from soft SKN rubbers with a Defoe hardness of 700 - 1,000g compared to vulcanizates from mass-produced rubbers are characterized by a lowered rate of vulcanization, somewhat lowered values of tear resistance and moduli. The vulcanizates of the soft SKN-18 rubber have also a lower frost resistance coefficient and elasticity. All other properties are almost equivalent. By increasing the sulfur content or the accelerators, an increase in the rate of vulcanization is achieved for mixtures of soft SKN rubbers, and in improvement in the resistance properties of the vulcanizates based on them. Due to the use of soft SKN rubbers in the production of rubber articles the cumbersome and energy-consuming stage of mechanical mastication is eliminated and the output of the mixing rollers is increased. There are 3 graphs and 5 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti (Scientific Research Institute of the Rubber Industry) ✓

Card 3/5

LEPETOV, Vasiliiy Aleksandrovich; ESMAN, P.I., red.; GRIVA, Z.I.,
red.

[Engineering rubber goods] Rezinovye tekhnicheskie izde-
liia. Izd.2., perer. i dop. Moskva, Khimiia, 1965. 471 p.
(MIRA 18:6)

MIKHAYLOV, G.G.; ESMAN, P.M.

Four-spindle head for milling key grooves. Stroil.1 dor.
mashinostr. 4 no.9:34 S '59. (MIRA 12:11)
(Milling machines--Attachments)

MIKHAYLOV, G.G.; ESMAN, P.M.

Reconditioning lathe chucks. Stan.1 instr. 31 no.2:45
F '60. (MIRA 13:5)
(Chucks)

ESMAN, S. A.

"Theory and Methods of Calculation of the Electric Drive and the Control Scheme of "Flying Scissors". Official opponents: I. G. Kul'bachnyy, Professor, Doctor of Technical Sciences and Ye. V. Nitusov, Professor Doctor of Technical Sciences.

Dissertation for the Degree of Candidate of Technical Sciences, Defended at All-Union Correspondence Polytechnic Inst. 22 June 1950 (Elektrichestvo, 1950, pp 89-91, No. 5)

ESMAT ALLAM, aspirant

Potato and tomato late blight in the Egyptian region of the
United Arab Republic. Zashch. rast. ot vred. 1 bol. 5 no.10:
47-48 0 '60. (MIRA 16:1)

1. Moskovskaya ordena Lenina sel'skokhozyaystvennaya akademiya
im. Timiryazeva, kafedra fitopatologii.

(Egypt—Tomatoes—Diseases and pests)
(Egypt—Potato rot)

CHERNYAK, A.S.; ESMONT, Ye.M.; SHEMETOVA, V.G.

Chemical fertilizers from phosphorites of the Lake Baikal region.
Izv.Sib.otd.AN SSSR no.1:101-104 '62. (MIRA 15:3)

1. Irkutskiy gosudarstvennyy nauchno-issledovatel'skiy institut
redkikh metallov.

(Baikal Lake region—Phosphorites)
(Fertilizers and manures)

CHERNYAK, A.S.; ESMONT, Ye.M.

Chemical selection of columbite pyrochlore and apatite in the
concentration of rare-earth sands. Zhur. prikl. khim. 38 no.1:
193-194 Ju '65. (MIRA 18:3)

ESO, Erno, Dr; Vas Megye Council "Markusovszky" Hospital (director: CSEKLO, Laszlo, Dr), Department of Urological Surgery (chief physician: ZOLTAN, Tibor, Dr) (Vas M. T. -- Megyei Tanacs --, "Markusovszky" Korhaz, Urologiai Sebészeti Osztaly).

"An Operated Case of Prostatic Myosarcoma."

Budapest, Magyar Sebészeti, Vol XIX, No 2, Apr 66, pages 141-143.

Abstract: [Author's Hungarian summary] A brief literature survey is followed by the description of a case of prostatic myosarcoma. Because of total retention of urine, transvesical prostatectomy was performed in combination with deep radiotherapy. The patient died 7 months after the operation. In addition to local recurrences the cause of death was severe tumor cachexia and apostematous nephritis caused by ureter compression.
4 Hungarian, 4 Western references.

1/1

- 35 -

8(6)

SOV/112-59-5-8868

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 5, p 64 (USSR)

AUTHOR: Esop, Kh. R.

TITLE: A Synchronous-Generator Excitation System Fed at a High Frequency and Using Magnetic Amplifiers and a Compounding System Is Analyzed

PERIODICAL: Izv. vyssh. uchebn. zavedeniy. Energetika, 1958, Nr 5, p 11-19

ABSTRACT: A scheme of synchronous-generator compounding with an electro-magnetic correction is described; the scheme is distinguished by high-speed magnetic amplifiers supplied from a high-frequency generator. It is noted that even under steady-state conditions, examination of the process of parallel supply of the generator field winding from the compounding-circuit rectifiers and from the correction circuit is very difficult because the currents and voltages are nonsinusoidal; the latter fact is due to nonlinearity of rectifiers and magnetic amplifiers. Results of experimental investigations are reported, as are the oscillograms of transients accompanying the switching on of a

Card 1/2

SOV/112-59-5-8868

A Synchronous-Generator Excitation System Fed at a High Frequency and Using . . .

squirrel-cage motor and a static inductive load. An approximate linearized differential equation for the above system was set up. An inference is drawn that the relative linearization error in analytical examination of the transients, as compared to experimental data, does not exceed 10-20% of the voltage deviation. An additional error due to the constant-load assumption can be evaluated as 1-3% of the rated voltage.

I.V.G.

Card 2/2

ESOP, Kh. R.

Cand Tech Sci - (diss) "Analysis of a system of excitation of synchronous generators using high frequency supply and with the use of magnetic amplifiers and compounding equipment." Tallin, 1961. 11 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Leningrad Polytechnic Inst imeni M. I. Kalinin); 150 copies; free; (KL, 7-61 sup, 249)

1987, 11.

Synthetic zeolites and their use in chemical and catalysis.
Rupa n. 6 no. 12-353-352 D. 1987.

1. Chair of Radiobiology of the Slovak Higher School
Technology, Bratislava.

ESPE, W.

"Glass and ceramics in vacuum technology" by P.Calnot,
G.Gallet. Reviewed by W.F. de Slaboproudy obzor 25
no.10:Suppl:Literatura 25 ..o 10:L77 '64.

SA

A-53
T

1899. Richardson Kathode Constant. W. Ruge. *Zeits. f. techn. Physik*, 10. 11 pp. 480-495, 1929. Paper read before the Deut. Phys. u. Math. Congr., 1929.

An investigation into the Richardson-Lane law for thermionic emission, $i_s = A T^2 e^{-\frac{U}{T}}$, where i_s is saturation current, A the surface area of the cathode, T the absolute temperature and U a constant depending on the cathode material, with special reference to more complex cathodes, such as a cadmium film on tungsten or Barium paste.

G. E. H.

ASD-114 METALLURGICAL LITERATURE CLASSIFICATION

10000 11000 12000 13000 14000 15000 16000 17000 18000 19000 20000 21000 22000 23000 24000 25000 26000 27000 28000 29000 30000 31000 32000 33000 34000 35000 36000 37000 38000 39000 40000 41000 42000 43000 44000 45000 46000 47000 48000 49000 50000 51000 52000 53000 54000 55000 56000 57000 58000 59000 60000 61000 62000 63000 64000 65000 66000 67000 68000 69000 70000 71000 72000 73000 74000 75000 76000 77000 78000 79000 80000 81000 82000 83000 84000 85000 86000 87000 88000 89000 90000 91000 92000 93000 94000 95000 96000 97000 98000 99000

Election Index

15 65

5

621.385.2 : 537.543

854. Contribution to the problem of testing the materials used for anodes of vacuum diodes with oxide-coated cathodes. W. EARY AND M. LUDOVAK. *Skabupr. Obr.*, 12, 26-34 (Feb., 1951) In Czech.

A mathematical analysis is given of anode electron emission in diodes with oxide-coated cathodes and methods of measuring it are described. The theoretically obtained results are confirmed by experiment. On the basis of the results obtained the methods of reducing reverse current in such valves are considered. Numerical results and graphs are given. 1. 11000

ESPE, W.

✓ 3853. Copper as a material in vacuum technology
H. Copper-to-glass seals. W. Espe. *Metals*
Obser. 14, No. 9, 393-403 (1955) In Czech

Continuation of the previous paper (ibid., *Obser.* 14, No. 8, 337-53 (1955)). Reviews the methods of preparing the vacuum-tight seals, mainly from the point of view of the manufacturing of transmitting valves. The copper used in seals is "UHC," free from Pb and containing admixtures of impurities with high vapour pressures. The following types of copper-glass joints are normally used: (1) seals with a very thin Cu wire or with a Cu-jacketed Fe-Ni wire;

(2) elastic seals with thin-walled tapered copper rings;
(3) disk seals, in which two glass tubes are joined in a copper disk of ~0.1 mm thickness. Prior to sealing, the metal surface is oxidized and bauxite-coated or enameled. After sealing, the metal is subjected to a heat treatment which removes the stresses and its surface is deoxidized and cleaned by immersion in acid baths. The two articles contain 16 references.

E. S. MISHCHENKO

ESPE, W.

Electrical Engineering

Abst.

Section B

Mar. 1954

Mechanical and Civil
Engineering Technology

669.294 : 621.385
816. Tantalum, its production, properties and
application in the production of valves. W. Espe. ✓
Slaboprůmysl Obzor, 14, 213-23 (May, 1953) In Czech.
A survey with 68 references.

ESPE, W.; POKORNY, V. - Vol. 14, no. 4, Apr. 1953. SLABOPROUDY OBZOR

New trends in the design of transmitting tubes. p. 178.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955
Uncl.

ESPE,

13940. Carbon as a material in vacuum technology.
W. Espe. *Sloboproudy Ohtor*, 14, No: 12, 531-47
~~(1953) in tech.~~

An account of electrical graphite, its production, properties and application; pyrous non-graphited carbon, production and application; colloidal graphite and suspensions, production and technology; carbon films, their formation from gaseous hydrocarbons and applications. Bibliography of 78 items. A.

ESPE, W.

Compound metals in vacuum techniques; clad metals and impregnated metals. (To be contd.) p. 39.

SLABORPROUDY OBZOR. Praha. Vol. 15, no. 1, Jan, 1954.

SOURCE: East European Accessions List (EEAL), IC, Vol. 5, no. 3, March 1956.

ESPE, W.

Hix, P. Vapor pressures and evaporation rates of materials for electronics,
especially metals. (Supplement) p. P15.
SLABOPROUDY ORZOR, Prague, Vol. 15, no. 3, Mar. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6 June 1956, Uncl.

Espe, Werner

Czechoslovakia/Electronics - Vacuum Technique, H-9

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35228

Author: Espe, Werner

Institution: None

Title: Methods and Techniques of Degassing Metals

Original

Periodical: Slaboproudy obzor, 1954, 15, No 6, 282-293; Czech; Russian. French, German, and English resumés

Abstract: Quantitative data are given on the absorption of various gases by metals. Description is given of the known methods for degassing the untreated metal by melting, and degassing parts and systems of electrodes of vacuum tubes by heating in vacuum or in hydrogen (in special ovens, or by high frequency heating), or by electron bombardment. Bibliography, 66 titles. For the start of the article see Referat Zhur - Khim, 1955, 22055.

Card 1/1

ESPE, W.

CZECH

621.78 : 621.385 : 533.5
3971. Surface treatment of metals in vacuum technology. W. F. H. S. (Slovakia) Obozr, 15, No. 9, 443-7; No. 10, 462-94 (1954) in Czech.

A very comprehensive review covering washing; pickling; forming the surface; sand-blasting; polishing; plating; sublimation of metal coating on to metal base; diffusion of one metal into the surface of a second; oxidation; carburizing; coating with carbon black; deposition of surface coating through thermal dissociation of halogen compounds; powdered metal coating; marking of metal parts. An international bibliography of 68 items is included.

ESPC, W
C. W. W.

621.327.3

2791. Luminescent materials for low-pressure mercury
discharge lamps. W. Espe. Elektrotech. Obzor, 43,
No. 4, 169-77 (1954) in Czech.

The relative spectral distribution of low- and high-pressure mercury lamps and the energy distributions inside and outside low-pressure lamps are discussed to clarify the requirements for coating materials. The conventional luminescent materials, the production of which is described, are known as "mixture lumino-phores" and the optical characteristics of the mixtures used for the various effects and commercially known as "daylight," "natural," "warm white," etc., shades are compared with the mixtures producing them. The recent use of halogen phosphates of alkaline earth metals is considered. Coating processes are described and technical data on the performance of many types of modern l.p. fluorescent lamps are tabulated. A fairly representative international bibliography of 42 items is added.

B. F. KRAUS

B. F. KRAUS

Espe, Werner

2816* Welding in the Vacuum Industry. Zváranie vo vák-
uovej technike. (Slovak.) Werner Espe. Zdrojník, v. 4, no. 7,
July 1955, p. 100-207.
MG Electric-resistance, and cold-, arc-, and flame welding methods
used in the construction of high-vacuum and gas-filled electron
tubes. Conditions demand the use of great amounts of H and
rare gases and eliminates use of fluxes. Photographs, tables,
graph, diagrams. 50 ref.

28

ESPE, W.

Czechoslovakia

(Prague and Bratislava)

Ueber elektrische Widerstandsschweissung von Glas in der Vakuumtechnik

SO: Nachrichtentechnik, #12, December 1955, Unclassified.

WIDE, ...

Technology and application of mercury in vacuum technology. p. 27.
SLABONOVY OZOR, Praha, Vol. 16, no. 1, Jan 1955.

30: Monthly list of East European Accessions, (SEAL), LC, Vol. 4, no. 10, Oct. 1955,
Incl.

621.791.76 : 666.1
2991. On the electrical resistance-welding of glass
in vacuum technique. W. ESTE. *Staloprouty Obzor*,
16, No. 2, 101-3 (1956) in Czech.
The welding technique relying on the heat produced
by electric currents passing through the welded
components is reviewed and appraised. It is found
to be particularly suitable for the welding of large
components made of hard glass, such as pipes,
television tubes and searchlights. One method of
resistance-welding relies on pre-heating of the welded
product by gas flame; another method employs
colloidal-graphite coating to initiate the welding.
The paper contains 10 references. A. S. HODGROWICZ

2
0
0
0

ESPE, W.

CZECH

661.1.037.3
1983. Compressed glass-to-metal seals. H. ADAM,
W. ESPE AND E. SCHWARTZBERGKAMPF. *Slaboprůmysl*
Obzor, 16, No. 4, 208-15 (1933) In Czech.

Translation of a paper from *Glas- und Hochvakuum-
Technik*, No. 7, 1933, supplemented by W. Espe. A
compressed seal consists of a glass disk embedded in
and mechanically stressed by a length of metal tube;
metal conductors, thermally matched with the glass,
may be sealed in the disk. Design of a seal is based
principally on its current-carrying capacity and maxi-
mum operating voltages. Distribution of stresses in
the seal is analysed and its preparation is described
in detail. The seals can withstand working tempera-
tures of 250°C, but are subject to failure at sudden
local changes of temperature. The paper is illustrated
by a substantial number of drawings, photographs and
curves, and contains 16 references. A. S. SIDOROWICZ

4
1/8
2

MB 82

ESPA, M.

The most important glasses for vacuum technology and instruments in
Czechoslovakia and the German Democratic Republic. p. 430.
SLABOVODNY OCELR. (Ministerstvo strojirenstvi a ministerstvo spou)
Praha. Vol. 16, no. 8, Aug. 1955.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

ESPE, W.

W. ESPE (Prague and Bratislava), "Technologie und Verwendung des Quecksilbers in der Vakuumtechnik," Nachrichtentechnik, Vol. 6, No. 4, Berlin, April 1956, Unclassified.

(Rough translation of title: Technology and Use of Quicksilver in Vacuum Engineering)

E Spe, W
W. Spe (Prague and Bratislava), "Kupfer als Werkstoff der Hochvakuumtechnik;
Teil II: Kupfer-Glas-Verschmelzungen," Nachrichtentechnik (Berlin), 6/9,
September 1956, p. 461 ff.

ESPE, W.

The production and application of shaped parts made of sintered glass in vacuum technology.
p. 193. (Strojnoelektrotechnicky Casopis. Bratislava. Vol. 7, no. 4, 1956.)

SC: Monthly List of East European Accessions (EEAL) LC., Vol. 6, no. 7, July 1957. Uncl.

ESPE. W.

A new lightning arrester. p. 80. (Strojnoelektrotechnický Casopis, Vol. 8, No. 2, 1957, Bratislava, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

ESPE, WERNER

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their
Application. Ceramics. Glass. Binders. Concrete.

H-13

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 15283.

Author : Espe Werner

Inst :

Title : Quartz Glass, Fused Quartz Sand and Glass Similar to
Quartz Glass, as Materials in High-Vacuum Technique.

Orig Pub: Slaboproudy obzor, 1957, 18, No 4, 266-280.

Abstract A review of production and further treatment methods, physical and chemical properties, and also of procedures of utilizing quartz glass. fused quartz sand and of glasses similar to quartz glass, in the technique of high-vacuum. Bibliography 63 references.

Card : 1/1

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their
Application. Ceramics. Glass. Binding Materials.
Concrete.

H-13

Abs Jour: Ref Zhur-Khim., No 2, 1959, 5494.

Author : Espe, Werner.

Inst :

Title : On Neutron Penetrance of Industrial Glasses.

Orig Pub: Strojoelektrotechn. casop., 1958, 9, No 3, 168-171.

Abstract: Analyzing the coefficient of specific absorption of
neutrons (Ns) by various oxides taking part in the
composition of glass (G), the author draws the con-
clusion that ordinary industrial Gs are characterized
by a great neutron penetrance. On the contrary, G
containing oxides of Cd, B, Gd and Eu, absorbs neutrons
very efficiently. Indium oxide possesses an exclusively

Card : 1/2

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their
Application. Ceramics. Glass. Binding Materials.
Concrete.

H-13

Abs Jour: Ref Zhur-Khin., No 2, 1959, 5494.

great capacity of selective absorption of neutrons
of an energy of 1.4 electron-volt. Recipes for, and
properties of, some Gs designed for protection from
neutrons are presented. Bibliography with 3 titles. -
L. Sedov.

Card : 2/2

CZECHOSLOVAKIA / Chemical Technology. Chemical Products H
and Their Applications. Glass.

Abs Jour: Ref Zhur-Khimiya, 1959, No 4, 12561.

Author : Espe, Warner.

Inst : ~~Not given.~~

Title : On the Gas Permeability of Industrial Glass.

Orig Pub: Strojnoelektrotechn. casop., 1958, 9, No 4, 240-246.

Abstract: It is remarked that in an "ultra-vacuum" (residual pressure 10^{-8} — 10^{-12} mm mercury column), industrial glass (G) becomes gas permeable to a certain degree. This permeability is very low for all gases, excluding helium, which, especially during high temperatures, passes rapidly through the glass. The diffusion rate of the gases increases with a decrease in the size of the gas molecules and with an increase in the content of oxides of silicon, boron, and

Card 1/2

CZECHOSLOVAKIA / Chemical Technology. Chemical Products H
and Their Applications. Glass.

Abs Jour: Ref Zhur-Khimiya, 1959, No 4, 12561.

Abstract: phosphorus in the composition of the industrial glass. Boron-silicate G of the "pyrex" types possesses the greatest permeability for gases, and, in particular, quartz G. The gas permeability of G increases strongly with increased temperature and is found in linear dependence on the size, and in inverse relation to absolute temperature. Bib. 10 titles. -- L. Sedov.

Card 2/2

41

H-9

CZECHOSLOVAKIA/Electronics - Vacuum Techniques

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 8778

Author : Espe Warner

Inst : -

Title : Mica as a Material for Vacuum Technology

Orig. Pub : Slaboproudý obzor, 1958, 19, No 6, 389-397

Abstract : A survey is given of the properties of mica as a vacuum material. The physical and chemical properties, methods of processing and of degassing, and surface coating of mica in vacuum technology are all considered.

Card : 1/1

CZECHOSLOVAKIA/Electronics - Vacuum Techniques

H-9

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 8779

Author : Espe Werner
Inst : Slovak College for Technology in Bratislava, Czechoslovakia
Title : Use of Mica in Vacuum Technology

Orig Pub : Slaboproudy obzor, 1958, 19, No 7, 458-464

Abstract : A systematic survey is given of the application of mica as a material in high vacuum technology. The following problems are considered: deposits, mining, and chemical composition of mica; treatment, physical and chemical properties, degassing, surface treatment, fusing of mica to glass or metal; and several examples of application of mica in vacuum technology. The author considers briefly the manufacture of synthetic mica and its properties. Bibliography, 77 titles. -- Author's resume

Card : 1/1

-2

Espe, W.

Z/039/60/021/03/008/028
E140/E135

AUTHORS: Werner Espe and Arno Kuhn

TITLE: Gas Filling for Ionisation Detectors,¹⁹ Especially
Ionisation Chambers and Proportional Counters

PERIODICAL: Slaboproudý Obzor, 1960, Vol 21, Nr 3, pp 156-162

ABSTRACT: Systematic survey of the gases and optimum mixtures of
gases and vapours used for filling ionisation detectors.
After a short general introduction the gaseous fillings
for various kinds of ionisation chambers and proportional
counters are dealt with in detail as well as the
influence of the filling on the qualities of the
detectors. Particular attention is paid to the choice
of gaseous filling in accordance with the kind of
radiation to be detected.

Card
1/1

There are 10 figures, 4 tables and 18 references, of
which 10 are German, 8 English.

ASSOCIATION: Slovenská vysoká škola technická, Bratislava
(Slovak Technical University, Bratislava) (W. Espe);
Spolek pro chemickou a hutní výrobu n.p., Ústí n. L.
(Association for Chemical and Metallurgical Production,
Ústí n L.) (A. Kuhn).

SUBMITTED: August 25, 1959

ESPE, Werner: KUHN, Arno

Some technological problems of Geiger-Muller tubes and spark counters.
Slaboproudý obzor 21 no.5:288-299 My '60. (EEAI 9:8)

1. Slovenska vysoka skola technicka, Bratislava (for Espe);
2. Spolek pro chemickou a hutni vyrobu, Usti nad Labem (for Kuhn)
(Geiger-Muller counters)

ESPE, W.

Rhenium; production, properties and use in high vacuum engineering. El tech cas 14 no.9:560-571'63.

ESPE, W.

"Scientific foundations of vacuum technique* by Saul Dushman.
Reviewed by W.Espe. Tel tech cas 14 no.9:581-582 '63.

ESPE, W.

"Glossary of terms used in vacuum technology." Reviewed by
W. Espe. Slaboprudy obzor:Suppl.:Literatura 24 no.5:L37 '63.

ESPE, W.

"Introduction to vacuum technology" by S.Buch. Reviewed by W.Espe.
Slaboproudy obzor 24 no.9:Suppl.:Literatura 24 no.9:L69, L71
'63.

ESPE, W.

"Practice of the high-vacuum engineering" by H.L.Eschbach. Reviewed
by W.Espe. Slaboproudny obzor 24 no.10:Suppl.:Literatura 24
no.10:L79 '63.

L 30113-66 FCC GG/WW

ACC NR: AP6020591

SOURCE CODE: CZ/0028/65/000/006/0312/0319

AUTHOR: Espe, Werner (Bratislava)

ORG: none

TITLE: Some new matters of interest from vacuum technique

SOURCE: Pokroky matematiky fyziky a astronomie, no. 6, 1965, 312-319

TOPIC TAGS: vacuum technique, atmospheric pressure

ABSTRACT: The article presents a survey of important possibilities of the application of vacuum technique in industry, physics and chemistry, with indications of the required vacuum, and a table and a diagram showing the air pressure in near, outer and interplanetary space as a function of height above the Earth's surface. The author thanks Engineer K. Merinsky, Candidate of Sciences for helpful discussions and compiling the survey. Orig. art. has: 5 tables. /JPRS/

SUB CODE: 20, 08 / SUBM DATE: none

Card 1/1 ULR

L 35394-66 EWP(c)/ETI/EWP(t) IJP(c) JD/HW/WH

ACC NR: AP6026902

SOURCE CODE: CZ/0042/65/000/006/0348/0362

AUTHOR: Espe, Werner (Professor; Doctor); Hix, Peter (Engineer) 18
B

ORG: [Espe] Department of Radio Engineering, Slovak Institute of Technology,
Bratislava (Katedra radiotechnologie SVST); [Hix] Tesla Roznov, National Enterprise,
Vrsovice plant, Prague (Tesla Roznov, n.p., zavod Vrsovice)

TITLE: Contribution to the advantageous processing of FeNiCo alloys before and
after their sealing to glass 27 27

SOURCE: Elektrotechnicky casopis, no. 6, 1965, 348-362

TOPIC TAGS: coaxial cable, glass to metal seal 16

ABSTRACT: The article discusses practical experience obtained in the designing
and production of coaxial kovar-to-glass seals for bushings used in hf-transmission
tubes, which led to good manufacturing results. The experience also is generally
useful in kovar-to-glass seal production, in the manufacturing of thyratrons, for
example. Many design drawings and photographs of elements given practical tests
are included. This paper was presented by J. Slosiar. Orig. art. has: 5 figures
and 3 tables. [Based on authors' Eng. abst.] [JPRS: 32,482]

SUB CODE: 13, 09 / SUBM DATE: 19Jan65 / ORIG REF: 006 / OTH REF: 007

Card 1/1 *Edh*

L 31784-66 EWP(t)/ETI IJP(c) JD

ACC NR: AP6021644

SOURCE CODE: CZ/0030/65/000/010/0305/0310

AUTHOR: Espo, Werner (Professor; Doctor), Bratislava

ORG: none

TITLE: Problems of vacuum technique in the preparation of thin layers

SOURCE: Jemna mechanika a optika, no. 10, 1965, 305-310

TOPIC TAGS: vacuum technique, metal film, semiconducting film

ABSTRACT: The article presents a survey of modern methods of vacuum technique, a knowledge and mastery of which are necessary in the production of thin layers. Thirty references cited in this, the first part of the article, but not listed. Orig. art. has: 20 figures and 5 tables. [JPRS]

SUB CODE: 20 / SUBM DATE: 04Aug65

LS

Card 1/1

UDC: 621.52

L 31021-66 ENP(t)/ETI IJP(c) JD

ACC NR: AP6022987

SOURCE CODE: CZ/0030/65/000/011/0341/0348

AUTHOR: Espe, Werner (Professor; Doctor of philosophy; Bratislava)

76
8

ORG: none

TITLE: Problems of vacuum technique in the application of thin layers

SOURCE: Jerna mechanika a optika, no. 11, 1965, 341-348

TOPIC TAGS: vacuum technology, film cooling, electron bombardment, sealing device, semiconducting film

ABSTRACT: The article is the conclusion of an article in no. 10, 1965, of this journal. It deals with low-temperature cooling, design problems of sealing in equipment for the production of thin films, resistance heating, electron bombardment, the evaporating "brake" and methods of producing thin films without the use of vacuum. Orig. art. has: 31 figures and 5 tables. [JPRS]

SUB CODE: 20, 13 / SUBM DATE: 03Aug65 / ORIG REF: 001 / OTH REF: 079

Card 1/1 JC

UDC: 621.52

0415

10 42

E 21365-66 T/EWP(t) JD

ACC NR: AP6010922

SOURCE CODE: CZ/0039/65/026/006/0335/0342

AUTHOR: Espe, Werner (Professor; Doctor)

ORG: Slovak Institute of Technology, Bratislava (Slovenska vysoka skola technicka)

TITLE: Materials for separable ultrahigh vacuum joints ~~+++++~~

SOURCE: Slaboproudý obzor, v. 26, no. 6, 1965, 335-342

TOPIC TAGS: ultrahigh vacuum, vacuum degassing, vacuum seal, vacuum chamber, metal

ABSTRACT: The article surveys suitable and reliable materials for separable all-metal joints which may be degassed easily and used for ultrahigh vacuum; methods of application are stated. Metals are discussed first, and then elastic materials withstanding higher temperatures are compared with them. Orig. art. has: 28 figures and 1 table. [JPRS]

SUB CODE: 11, 13 / SUBM DATE: 28Sep64 / ORIG REF: 002 / OTH REF: 034

Card 1/1

UDC: 621.52

ACC NR: AP6035528

SOURCE CODE: CZ/0039/66/027/010/0630/0640

AUTHOR: Espe, Werner; Hix, Peter; Kejhar, Jindrich

ORG: [Espe] Slovak Technical College, Bratislava (Slovenska vysoka skola technicka); [Hix; Kejhar] TESLA Roznov National Enterprise, Vrsovice Enterprise (TESLA Roznov n. p., zavod Vrsovice)

TITLE: Reliable vacuum-tight soldered ceramic-metal joints

SOURCE: Slaboproudy obzor, v. 27, no. 10, 1966, 630-640

TOPIC TAGS: ceramic to metal seal, ceramic product, thermionic tube, solder, vacuum tight solder, corundum

ABSTRACT: The article discusses the advantages and drawbacks of ceramics as materials in the manufacture of thermionic tubes, and presents theoretical considerations on the vacuum tightness of ceramic-to-metal seals. The material and design aspects in the manufacture of a transmitting tube with a reliable vacuum-tight soldered corundum-to-kovar seal are considered in detail. The use of locally manufactured materials in the mass production of ceramic pickup tubes is discussed. Orig. art. has: 18 figures and 4 tables. [Based on authors' abstract]

Card 1/1 SUB CODE: 11/SUBM DATE: none/ORIG REF: 004/OTH REF: 027/

[KS]

ESPENHAN, Maria

MARCINIAK, Aleksandra; ~~ESPENHAN~~, Maria

Significance of paper electrophoresis in clinical rheumatic diseases. Polskie arch. med. wewnetrz. 24 no.3a:383-392 1954.

1. Z I. Kliniki Chorob Wewnetrznych Akademii Medycznej w Poznaniu
Kierownik: prof. dr St. Kwasniewski.

(RHEUMATISM, blood in,

*globulin, electrophoresis)

(ELECTROPHORESIS,

*of serum globulin in rheum)

(SERUM GLOBULIN, in various diseases,

*rheum., electrophoresis)

NSPENHAN, M., MICHALKIEWICZ, W., ZYWICKA-TWAROWSKA, I.

Blood proteins in normal and diseased newborn infant. *Pediat.polska*
33 no.3:303-313 Mar 58

1. Z I Kliniki Poloznictwa i Chorob Kobietych A.M. w Poznaniu.
Kierownik: doc dr med. W Michalkiewicz. Adres: Poznan, ul. Polna 33,
I Klin. Poloz. i Chor. Kobietych A.M.
(BLOOD PROTEINS, determ.
in normal & dis. newborn inf. (Pol))
(INFANT, NEWBORN, dis.
blood proteins in (Pol))

ESPENHAN, Maria; MICHALKIEWOZ, Witold

Some physico-chemical properties of proteins of the myometrium.
Ginek. pol. 34 no.2:193-197 '63.

1. Z I Kliniki Położnictwa i Chorob Kobietych AM w Poznaniu
Kierownik: prof. dr med. W. Michalkiewicz.
(MUSCLE PROTEINS) (UTERUS) (CHEMISTRY)

ESPEROV, P. N.

ESPEROV, P. N. -- "Material on the Problem of Intraabdominal Pressure in Humans." Kuybyshev State Medical Inst. Chair of Hospital Surgery. Kuybyshev, 1956. (Dissertation for the Degree of Candidate in Medical Sciences)

SC: Knizhnaya Letopis', No 1, 1956

Esperov, B.N.
ESPEROV, B.N.

Echinococcosis of the thoracic wall. Vop.neirokhir. 21 no.6:53-54
N-D '57. (MIRA 11:2)

1. Kafedra gospiatal'noy khirurgii Kuybyshevskogo meditsinskogo
instituta.

(ECHINOCOCCOSIS, case reports
thoracic wall)

(THORAX, dis.
echinococcosis of thoracic wall)

156801, B.A'

ESPEROV, B.H., kand.med.nauk

Observations of malignant hypertension following surgery.
Sov.med. 21 no.11:98-100 N '57. (MIRA 11:3)

1. Iz kafedry gosspital'noy khirurgii (zav.-prof. A.M.Aminev)
Kuybyshevskogo meditsinskogo instituta (dir.-prof. T.I.
Yeroshevskiy)

(HYPERTENSION, surg.
follow-up in malignant hypertension)

ESPEROV, B.N., kandidat meditsinskikh nauk

Pneumoperitoneum following surgery and its significance in the
clinic [with summary in English]. Khirurgia 33 no.3:48-51
Mr '57. (MLRA 10:6)

1. Is kafedry gosital'noy khirurgii (sav. - prof. A.M.Aminev)
Kyubyshevskogo meditsinskogo instituta (dir. - prof. T.I.
Yeroshevskiy)

(PNEUMOPERITONEUM

postop., clin. significance (Rus))

ESPEROV, B.N., dotsent

Lumbrosacral radiculitis caused by herniation of the intervertebral disks and their surgical treatment. Vop.neirokhir. 25
no.3:24-28 My-Je '61. (MIRA 14:5)

1. Kafedra gospiatal'noy khirurgii Kuybyshevskogo meditsinskogo instituta.

(INTERVERTEBRAL DISK—DISEASES) (NERVES, SPINAL—DISEASES)

ESPEROV, B.N.

Clinical aspects and results of surgical treatment in intervertebral disk hernia. Zhur. nevr. i psikh. vol. 64 no.5:694-700 '64.

(MIRA 17:7)

1. Kafedra gosital'noy khirurgii (zaveduyushchiy - prof.A.M.Aminev)
i kafedra nervnykh bolezney (zaveduyushchiy - prof.A.I.Zlatoverov)
Kuybyshevskogo meditsinskogo instituta.

ESPEROV, B.N., dotsent (Kuybyshev, Polevaya ul., 3, kv.43)

Discography (nucleography) in hernias of lumbar intervertebral disks.
Vest. khir. 92 no.3:79-82 Mr '64. (MIRA 17:12)

1. Iz gosital'noy khirurgicheskoy kliniki (zav. - prof. A.M.Aminev)
i kafedry nervnykh bolezney (zav. - prof. A.I.Zlatoverov) Kuybyshevskogo
meditsinskogo instituta.

15.2200

81104
Z/012/60/000/01/002/015
E073/E535

AUTHOR: Espig, H.

TITLE: On the Synthesis of Asbestos and of Some Other Minerals

PERIODICAL: Silikáty, 1960, No 1, pp 10-28 + 1 plate

ABSTRACT: In the Scientific Laboratory of the Electro-chemical Combine in Bitterfeld, East Germany, research has been carried out aimed at synthesizing long threads of asbestos suitable for spinning. Although the research is not completed, considerable progress has been achieved. They succeeded in producing water-free asbestos of the types Ca-Mg-asbestos, pure Mg-asbestos and sodium or fluorine containing crocidolite of lengths up to 5 mm which are suitable for special purposes since they are chemically and thermally more resistant than some natural types of asbestos, particularly fibrous serpentine. It was proved that the synthesis of asbestos does not pass through the gaseous phase but in a peculiar way it passes via drops of a silicate intermediate substance from which acicules

Card 1/3

81104

Z/012/60/000/01/002/015
E073/E535

On the Synthesis of Asbestos and of Some Other Minerals

and fibres form owing to excessively rapid crystallization in the case of high saturation. The author deals with the conditions under which compact crystals occur, acicules or fibres, i.e. with the problems of the crystal habitus. The author points out the dependence between the $MgO:SiO_2$ ratio and the greater or lesser purity of asbestos, i.e. the absence of accompanying minerals, as for instance talcum, tridymite, etc. Since so far the synthetic asbestos substance differs considerably from the natural asbestos, conditions were investigated for the manufacture of components from this synthetic asbestos. Furthermore, the production was studied of soft, pliable fibres and the loosening of the mass by combustible substances (coal dust and particularly peat dust) which is favourable from the point of view of fibre formation. Problems of the crucible material and apparatus problems were also investigated and the research program has been extended

Card 2/3

81104

Z/012/60/000/01/002/015
E073/E535

On the Synthesis of Asbestos and of Some Other Minerals

to include synthesis of ferrous-asbestos, mica and
turmaline. From the structural point of view it is
interesting that, on several occasions, the asbestos was
obtained as strip-like crystals, which indicates a
transition from fibre silicates to layer silicates. ✓
There are 13 references, all of which are German.

ASSOCIATION: VEB, Elektrochemický kombinát Bitterfeld
(VEB, Electrochemical Combine, Bitterfeld, East Germany)

SUBMITTED: June 1, 1959

Card 3/3

ESRIG, E. dr.

DUTU, St., dr.; STUPCANU, C., dr.; ESRIG, E., dr.

Trypsin test in differential diagnosis of ventilatory insufficiency. Med. int., Bucur. 9 no.3:417-423 Mar 57.

1. Lucrare efectuata in Laboratorul de fiziologie al Institutului de fiziologie.

(RESPIRATION

insuff., diag., trypsin test)

(TRYPSIN

test of resp. insuff.)

CARPINISAN, C.; SCUREI, Alex.; CORNEA, P.; ESRIG, E. ...

Contributions to the clinical study and therapy of pulmonary
air cysts. Rumanian med.rev. 7 no.3:41-46 J1-S'63

POENARU, Elena; ESRIG, Mira; LAZAR, M.; LASCO, N.; KRANZDORF, H.

Contribution to the study of tetanus toxoid adsorbed on a mineral support, with or without previous purification. I. Arch. roum.path. exp. microbiol. 23 no. 3:667-674 S '63.

1. Laboratoire du Tetanos (for Peonaru, Esrig, Lazar, Lasco).
2. Laboratoire pour la Purification des antigenes (for Kranzdorf). Travail de l'Institut "Dr. I. Cantacuzino.", Bucarest.

RUDNYI, N.M.; BOZZHENNIKOVA, N.P.; ESRIK, V.B.

Transient measurement of an electric resistance of $\frac{1}{1000 \times 10}$
ohms. Trudy VNIIM no.38:52-60 '59. (MIRA 13:4)
(Electric resistance--Measurement)

RUDNYI, N.M.; ESRIK, V.B.

Combined standard measure of electric resistance. Trudy
VNIIM no.38:61-70 '59. (MIRA 13:4)
(Electric resistance--Measurement)

111, F.

"Building Ceramics", P. 294, (GATKRIJY PLACIANT, Vol. 6, No. 11, November 1954, Warsaw, Poland)

SC: Monthly List of East European Accessions (U AL), 11, Vol. 7, No. 3, March 1955, Uncl.

GIMMEL'FARB, Ya. K.; ESSEL', A.Ye.; MASLOVCHUK, Ye.P.

Observations of phagocytic reaction of leukocytes to a suspension of *Salmonella typhosa* with added vaccinia virus. Zhur. Mikrobiol. epid. i immun. no.5:69-73 My '55. (MLRA 8:7)

1. Iz Uzhgorodnskogo instituta epidemiologii, mikrobiologii i gigiyeny (dir. V.M. Meshchenko) i kafedry epidemiologii (zav. prof. Ya. K. Gimmelfarb) Odesskogo meditsinskogo instituta imeni N.I. Pirogova (dir. prof. I. Ya. Dayneka)

(PHAGOCYTOSIS,

phagocytic reaction of leukocytes to *Salmonella typhosa* suspension with added vaccinia virus)

(SALMONELLA TYPHOSA,

Phagocytic reaction of leukocytes to *Salmonella typhosa* suspension with added vaccinia virus)

(VACCINIA, virus,

Phagocytic reaction of leukocytes to *Salmonella typhosa* suspension with added vaccinia virus)

(VIRUSES,

Vaccinia, phagocytic reaction of leukocytes to *Salmonella typhosa* suspension with added vaccinia virus)

ESSEL', A. YE.

"Directed alteration of the toxigenic property of the diphtheria bacillus in growing it on nutritive media with the addition of agents of P. W.--8 culture.

Report submitted to the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists. 1959

ESSEL', A.Ye., starshiy nauchnyy sotrudnik, kand.biol.nauk; NOVOKROSHCHENOV,
B.V., starshiy nauchnyy sotrudnik, kand.med.nauk, otv.red.;
BLIZEYEV, V.I., kand.med.nauk, red.; KOZLOV, V.A., dotsent, red.;
RASKIN, M.M., starshiy nauchnyy sotrudnik, kand.med.nauk, red.

[Problems in the biology of the causative agent of diphtheria]
Voprosy biologii vozbuditelia difterii. Chita, 1959. 189 p.
(Chita. Institut epidemiologii, mikrobiologii i gigieny. Nauchnye
zapiski, no.5). (MIRA 15:1)

(CORYNEBACTERIUM DIPHTHERIAE)

ESSML', A.Ye.

Nature of respiration in Corynebacterium diphtheriae. Zhur.
mikrobiol.epid. i immun. 30 no.5:80-84 My '59. (HIRA 12:9)

1. Iz Chitinskogo instituta epidemiologii, mikrobiologii i
gigiyany.

(CORYNEBACTERIUM DIPHTHERIAE, metabolism,
resp. (Rus))

ESSEL', A. Ye. Doc Biol Sci -- (diss) "Material on the biology of the causative agent of diphtheria." Moscow, 1960, 27 pp. (Acad Med Sci, USSR), 300 copies, (KL, 31-60, 141)

ESSEL', A.Ye.

Fifth scientific session of the Khabarovsk Institute of Epidemiology
and Microbiology. Zhur.mikrobiol., epid.i immun. 33 no.4:160-161
Ap '62. (MIRA 15:10)
(EPIDEMIOLOGY--CONGRESSES) (MICROBIOLOGY--CONGRESSES)

ESSEL', Aleksandr Yefimovich; FRIDMAN, A.M., red.

[Indirect hemagglutination reaction] Reaktsiia nepriamoi
gemagglutinatsii. Leningrad, Meditsina, 1965. 50 p.
(MIRA 18:5)

YERMAN, B. A.; ESSEL', A. Ye.; BRONITSKAYA, Ye. Yu.; SHUBINA, S. B.; MEASNIKOVA, A. T.

"Tsitofotometricheskoye opredeleniye sodержaniya rnk v kletkakh ner-2, zaraznennykh rnk-soderzhashchim virusom."

report presented at Symp on Virus Diseases, Moscow, 6-9 Oct 64.

Institut virusnykh infektsiy, Sverdlovsk.

KURNOSOVA, N.A.; BONDARENKO, V.A.; RAKHMAN, E.Z.; YAVRUMOV, V.A.; KIRYUSHINA, L.A.; MANOLOVA, E.P.; ESSEL', A.Ye.; TARASOVA, M.A.; PIROGOVA, A.I.; PIROGOV, I.Ya.; AKOPYAN, R.A.; BABUNASHVILI, N.P.; PROTSENKO, O.A.; PUNSKAYA, I.G.; BURMISTROVA, O.G.; POGOREL'SKAYA, S.A.; D'YACHENKO, T.F.; TOPURIYA, I.I.; MATABELI, G.V.; GIGITASHVILI, M.S.; VACHNADZE, T.G.; MAZURIN, N.D.; NABIYEV, E.G.; BLOKHOV, V.P.

Abstracts. Zhur. mikrobiol., epid. i immun. 41 no.4:142-147
Ap '64. (MIRA 18:4)

1. Moskovskiy institut epidemiologii i mikrobiologii (for Kurnosova). 2. Faleshtskaya rayonnaya bol'nitsa Moldavskoy SSR i Vinnitskiy meditsinskiy institut imeni Pirogova (for Bondarenko). 3. Stavropol'skiy institut vr'ktsin i syvorotok (for Rakhman). 4. Kaluzhskiy oblastnoy ot'del zdравookhraneniya (for Yavrumov, Kiryushina). 5. Donetskiiy meditsinskiy institut (for Manolova). 6. Tbilisskaya rayonnaya imeni 26 komissaro sanitarno-epidemiologicheskaya stantsiya (for Akopyan, Babunashvili). 7. Kemerovskiy meditsinskiy institut (for Protsenko). 8. Turkmen-skiy meditsinskiy institut (for Punskaaya, Burmistrova). 9. Gor'-kovskiy institut epidemiologii i mikrobiologii i Gor'kovskaya rayonnaya sanitarno-epidemiologicheskaya stantsiya (for Pogorel'skaya, D'yachenko). 10. Institut meditsinskoy parazitologii i tropicheskoy meditsiny imeni Virsaladze Ministerstva zdравookhraneniya Gruzinskoy SSR (for Topuriya, Matabeli, Gigitashvili, Vachnadze). 11. Kazanskiy institut usovershenstvovaniya vrachey (for Nabiyeu).

FILIMONOV, L.N.; ESSEN, A.I.

Quantitative spectrochemical analysis of admixtures in binary
brasses. Zav.lab.22 no.4:426-435 '56. (MIRA 9:7)

1.Institut "Gipretsvetmetobrabotka".
(Brass--Spectra)

ESSEN, AI

Page 1 of 1

[illegible]

...and only... (papers read at the Second All-Asian Conference of Analytical Spectroscopists in Singapore in 1977) known, unpublished. Over twenty reprints, 1977, 148 p. 1,000 copies printed.

Resolving Issues: Making-Order/Disorder Subtypes (see Table 1)

UNITED STATES DEPT. OF AGRICULTURE, BUREAU OF PLANT INDUSTRY, WASHINGTON, D. C.

...and the ...

Remarks: This is a collection of papers dealing with the use of the spectrometer in the study of the structure of the atom.

sample means as published in the number for the respective year(s). Surveys are listed as follows: elements in the field of mathematics in 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626

L. Mendenhall, U.S. Geologist, U.S. Geological Survey, Washington, D.C.

1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37
 38
 39
 40
 41
 42
 43
 44
 45
 46
 47
 48
 49
 50
 51
 52
 53
 54
 55
 56
 57
 58
 59
 60
 61
 62
 63
 64
 65
 66
 67
 68
 69
 70
 71
 72
 73
 74
 75
 76
 77
 78
 79
 80
 81
 82
 83
 84
 85
 86
 87
 88
 89
 90
 91
 92
 93
 94
 95
 96
 97
 98
 99
 100
 101
 102
 103
 104
 105
 106
 107
 108
 109
 110
 111
 112
 113
 114
 115
 116
 117
 118
 119
 120
 121
 122
 123
 124
 125
 126
 127
 128
 129
 130
 131
 132
 133
 134
 135
 136
 137
 138
 139
 140
 141
 142
 143
 144
 145
 146
 147
 148
 149
 150
 151
 152
 153
 154
 155
 156
 157
 158
 159
 160
 161
 162
 163
 164
 165
 166
 167
 168
 169
 170
 171
 172
 173
 174
 175
 176
 177
 178
 179
 180
 181
 182
 183
 184
 185
 186
 187
 188
 189
 190
 191
 192
 193
 194
 195
 196
 197
 198
 199
 200
 201
 202
 203
 204
 205
 206
 207
 208
 209
 210
 211
 212
 213
 214
 215
 216
 217
 218
 219
 220
 221
 222
 223
 224
 225
 226
 227
 228
 229
 230
 231
 232
 233
 234
 235
 236
 237
 238
 239
 240
 241
 242
 243
 244
 245
 246
 247
 248
 249
 250
 251
 252
 253
 254
 255
 256
 257
 258
 259
 260
 261
 262
 263
 264
 265
 266
 267
 268
 269
 270
 271
 272
 273
 274
 275
 276
 277
 278
 279
 280
 281
 282
 283
 284
 285
 286
 287
 288
 289
 290
 291
 292
 293
 294
 295
 296
 297
 298
 299
 300
 301
 302
 303
 304
 305
 306
 307
 308
 309
 310
 311
 312
 313
 314
 315
 316
 317
 318
 319
 320
 321
 322
 323
 324
 325
 326
 327
 328
 329
 330
 331
 332
 333
 334
 335
 336
 337
 338
 339
 340
 341
 342
 343
 344
 345
 346
 347
 348
 349
 350
 351
 352
 353
 354
 355
 356
 357
 358
 359
 360
 361
 362
 363
 364
 365
 366
 367
 368
 369
 370
 371
 372
 373
 374
 375
 376
 377
 378
 379
 380
 381
 382
 383
 384
 385
 386
 387
 388
 389
 390
 391
 392
 393
 394
 395
 396
 397
 398
 399
 400
 401
 402
 403
 404
 405
 406
 407
 408
 409
 410
 411
 412
 413
 414
 415
 416
 417
 418
 419
 420
 421
 422
 423
 424
 425
 426
 427
 428
 429
 430
 431
 432
 433
 434
 435
 436
 437
 438
 439
 440
 441
 442
 443
 444
 445
 446
 447
 448
 449
 450
 451
 452
 453
 454
 455
 456
 457
 458
 459
 460
 461
 462
 463
 464
 465
 466
 467
 468
 469
 470
 471
 472
 473
 474
 475
 476
 477
 478
 479
 480
 481
 482
 483
 484
 485
 486
 487
 488
 489
 490
 491
 492
 493
 494
 495
 496
 497
 498
 499
 500
 501
 502
 503
 504
 505
 506
 507
 508
 509
 510
 511
 512
 513
 514
 515
 516
 517
 518
 519
 520
 521
 522
 523
 524
 525

3. Plummer, L.H., H.A. Brady, and E. A. Anderson (Abstracts in Intelligence Planning and Research Division For The Processing of Intelligence)

19

4. Sediments, M.I.L. - Spectrometric Analysis of Heavy

[illegible]

6. **Prebuhl, G.B.** (Edgewood'-Edgewood Scientific Research Institute, Edgewood, N.Y.)

THE SCIENCE AND PLANNING OF COPPER MINERARY PLANTS: Quantitative assessment of copper and chlorine in waste effluents in the copper smelting industry

7. **Бухгольц, В. Б.** (Glukhovich, V. B.). Spectroscopic Analysis in the Construction of Mass Spectrometers. **Моск. ин-т, Ленинск.**

8. Diagnosis, H.I. (Qualitative-Definitive Research Partials for

Technical Department of Minerals, Kuala Lumpur). Anal. Quantitative Analysis of Ores as Practised at the "Kuala Lumpur" Metallurgy

9. **Plasma, L.H.** [Observations substantiate]. New questions of Principles and Configuration in the Prediction of Standard Samples for Spectroscopy

Analysts: J. H. Williams, L. H. and A. I. Brown (Chromatogram Laboratory); Pauline Clark

of Federal England is the Department of Trade and

Abstract

[illegible]

Figure 1 is a schematic diagram of a vertical column, likely representing a chromatography system. The column is depicted as a long, narrow vertical tube. At the top, there is an 'INLET' port with a downward-pointing arrow. Below the inlet, the main body of the column is labeled 'COLUMN'. Further down, there is a 'DETECTOR' section, also with a downward arrow. At the very bottom, there is an 'OUTLET' port with a downward arrow. The column is flanked by two vertical lines, possibly representing support structures or guard columns. Various labels and arrows are present, indicating the flow of material through the system and the positions of different components.

Downloaded from <http://ajphaphysocpharm.sagepub.com/> at 11:06 11 November 2014

SOV/137-58-9-20309

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 313 (USSR)

AUTHORS: Filimonov, L.N., Essen, A.I.

TITLE: Quantitative Spectrochemical Determination of Impurities in Binary Brasses (Kolichestvennoye spektrokhimicheskoye opredeleniye primesey v dvoynykh latunyakh)

PERIODICAL: Tr. Gos. n.-i. i proyektn. in-ta po obrabotke tsvetn. met., 1957, Nr 16, pp 127-148

ABSTRACT: Bibliographic entry. Ref. RZhMet, Nr 11, abstract 13147

1. Brass--Impurities 2. Brass--Spectrographic analysis 3. Chemical impurities--Determination

Card 1/1

Essen, A.I.

137-58-4-8569

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4. p 322 (USSR)

AUTHORS: Filimonov, L.N., Essen, A.I.

TITLE: Spectrochemical Determination of Lithium in Copper (Spektro-khimicheskoye opredeleniye litia v medi)

PERIODICAL: Tr. Gos. n.-i. i proyekt. in-ta po obrabotke tsvetn. met., 1957, Nr 16, pp 149-156

ABSTRACT: The object of the work was an investigation of the possibility of identification (of Lithium? Transl. Ed.) by means of the 6707, 844, 3232.61, and 6103.642 lines under various regimes of globular arcs in the 0.0005-0.06% concentration interval. Eight Li-Cu alloys in all were prepared. The alloys were made by mixing titrated solutions of the necessary strength, evaporating them, annealing them at 600°C and pressing the briquets in a steel mold. The light source was a 1.5-5.8 amp dc arc fed from a stabilized source. The counterelectrode was a rod of pure Cu, 8 mm in diameter, brought to a truncated conical point, the radius of curvature of the apex being 1.5 mm. The arc length was held constant (3.5 mm) by means of a projection lens providing 25-fold enlargement on the screen. A Dietert

Card 1/2

137-58-4-8569

Spectrochemical Determination of Lithium in Copper

spectrograph with 7 angstrom/mm dispersion and a 60 micron aperture was employed. Lines of anneal were plotted for the plate and cathode and, in view of the high stability of the plate melt, graduated graphs of plate briquets weighing 0.5 g were drawn. The possibility of identifying 0.0005-0.008 concentrations of Li in Cu by means of the 6103.64 line was established. At higher concentrations it is desirable to dilute the pure Cu specimen by dissolving it and to employ the 3232.6 Li line and the melt at the anode.

1. Lithium--Determination analysis
2. Copper-lithium alloys--Spectrographic

A. F.

Card 2/2

Essen, A.I.
AUTHORS: Filimonov, L.M., Essen, A.I., Zakharova, Z.A. 32-11-18/60
TITLE: The Determination of Admixtures in Titanium by Means of Spectral Analysis (Spektral'no-analiticheskoye opredeleniye primesey v titane)
PERIODICAL: Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 11, pp.1313-1315 (USSR)
ABSTRACT: This paper investigates the problem of determining 12 different metal admixtures in the concentrations of 0.01-0.2% in technically pure titanium, from which various objects are manufactured (such as rods, tubes, blades, etc.). Though publications dealing with this subject were available [ref.1,2,3,4,5,6], an improved method for the spectro-analysis of titanium was recommended. A globule arc lamp was used as a light source. Such trouble as difficult meltability, low electric conductivity, and an inclination of spraying the titanium oxides in the arc lamp was dealt with by mixing the titanium oxides with other elements. In the present case titanium dioxide was mixed with copper dioxide and pressed into briquets (0.5 g). In the same manner as the corresponding standard gauged samples were prepared, and for copper, nickel, cobalt, iron, manganese, and magnesium the oxide powders were obtained by synthetical means, i.e. by dissolution of the pure elements in nitric acid and vaporisation, or, in the case of

Card 1/2

32-11-18/60

The Determination of Admixtures in Titanium by Means of Spectral Analysis

TiO₂, SiO₂, WO₃, Al₂O₃, Cr₂O₃, MoO₃, V₂O₅, Nb₂O₅ by mechanical mixing. The briquets produced were switched on as a cathode in the arc lamp on a graphite carrier. Exposure took place at the moment when the briquet was molten, the arc provided a uniform light on the basis of the drops of the molten sample. The spectrograph and a diffraction net supplied by the firm of Diter were used. There are 1 figure, 1 table, and 13 references, 8 of which are Slavic.

ASSOCIATION: The "Giprotvetmetobrabotka" Institute (Institute for Nonferrous Metals) (Institut "Giprotvetmetobrabotka")

AVAILABLE: Library of Congress

Card 2/2

VODYANAYA, T.A.; MAKULOV, N.A.; ESSEN, A.I.

Spectrum analysis of NIVO-3, NIKA, SKA-1, AMgK, No. 149,
AMg6-1 alloys by metal specimens. Trudy Giprotsetmetobrabotka
no.24:355-358 '65. (MIRA 18:11)

USSR/Inorganic Chemistry - Complex Compounds

C.

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4C99

Author : Gel'man, A.D., Essen, D.N.

Inst : Academy of Sciences USSR

Title : Preparation of Nitrodichloro-Monoammino Platate of Potassium

Orig Pub : Dokl. AN SSSR, 1956, 107, No 6, 835-836

Abstract : To prepare crystalline $K[PtNH_3ClNO_2Cl] \cdot H_2O$ (I) 1 mole of $NaNO_2$ was added to a warm aqueous solution of $K[PtNH_3Cl_3]$ (II). By addition of $[Pt(NH_3)_4]Cl_2$ to the reaction mixture a yellowish-orange precipitate of $[Pt(NH_3)_4][PtNH_3ClNO_2Cl]_2$ (III) was produced. Salt III was ground with water and there was added thereto a calculated amount of $K_2[PtCl_4]$. The Magnus salt that was formed was filtered off and the solution was evaporated at $50-60^\circ$ on a water bath. The residue was ground repeatedly with alcohol. Dried over $CaCl_2$ it

Card 1/2

- 15 -

USSR/Inorganic Chemistry - Complex Compounds

C.

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4099

had the composition I. The water is lost completely by I at 150°. On action of pyridine on an aqueous solution of I there is formed $\text{cis-}[\text{C}_5\text{H}_5\text{NNO}_2\text{NH}_3\text{ClPt}]$,

which is identical to the product that was obtained by the action of $\text{C}_5\text{H}_5\text{N}$ on a solution of $\text{II} + \text{KNO}_2$.

Card 2/2

- 16 -

ESSEN, I. N.

USSR/Chemistry - Platinum
Chemistry - Isomers

Nov 48

"Obtaining $(\text{NH}_3)_5\text{PtCl}_2\text{Br}$ in the Form of Three Expanded Isomers," A. D. Gel'man,
Ye. F. Karandashova, I. N. Essen, Inst of Gen and Inorg Chem imeni N. S. Kurnakov,
Acad Sci USSR, 4 pp

"Dok Ak Nauk SSSR" Vol LXIII, No 1

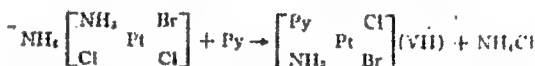
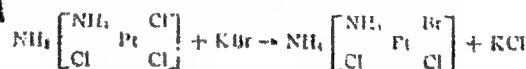
Studied problem of obtaining three expanded isomers of a complex compound of bivalent platinum with the most typical intrasphere substitutes (pyridine, ammonia, chlorine, bromine), using I. I. Chernyayev's law. Analysed trans- and cis-isomers and tabulated the properties of the three isomers. Submitted by Acad I. I. Chernyayev 26 Jun 48.

61/49T17

Essen, N. V.

Production of chlorobromopyridinoamminoplatinum in its three isomeric forms. A. D. German, L. P. Karabagchova, and N. N. Essen. *Izvest. Sektora Platiny i Drugikh Bldgorod. Metallov* (Moscow) *Neorg. Khim., Akad. Nauk S.S.S.R.* No. 24, 60-71 (1949). — *cis*-[Pt(NH₂)₂Cl₂] (I) with C₄H₅N gives *cis*-[Pt(NH₂)₂Py₂Cl₂] (II). II with HCl gives *trans*-[Pt(NH₂PyCl₂)₂] (III). III + AgNO₃ + H₂O → [PtPyClNH₂H₂O]NO₃ (IV) + AgCl. IV + KBr → [PtPyBrNH₂Cl] (V) + KNO₃ + H₂O or III + *trans*-[PtPyBrNH₂Cl] (VI) → 2 V or III + KBr → V + KCl or VI + KCl → V + KBr. Dissolve with heat 1.7 g. I in 3 ml. C₄H₅N and 60 ml. H₂O, cool, filter, add 30 ml. concd. HCl, and heat 2 hrs. under CO₂ atm. Cool, filter, and wash the ppt. until the filtrate is free of Cl⁻. Heat the filtrate with HCl and repeat the preceding operations. Combine the 2 ppts., recrystallize III from hot H₂O, and dry over CaCl₂. By the first method dissolve 0.6310 g. of III in 500 ml. of H₂O. Add 0.2901 g. of AgNO₃ (in soln.), heat, keep in a dark place to settle out, and filter. To the filtrate add

0.2074 g. of KBr, filter, and recryst. Pyz. on hot H₂O. By the second method to a hot soln. of III the required quantity of VI, heat to complete soln., cool slowly. By the third method dissolve 0.8181 g. of III in approx. 200 ml. of hot H₂O, add 0.2985 KBr, heat on a water bath for 4-5 hrs., and cool slowly. By the fourth method dissolve 0.5080 g. of VI in 400 ml. of hot H₂O. Add 0.98 g. of KCl, heat for approx. 4 hrs. at 80-90°, and cool slowly. One of the *cis* isomers was synthesized according to



To obtain the 2nd *cis* isomer dissolve 0.73 g. of K[Pt(PyCl)₂] in a small vol. of slightly acidified H₂O. Filter and add 0.2939 g. of KBr. Heat over the water bath for 45 min., cool, and add dropwise with stirring 2-3 drops of 10% NaOH, using 2-3 drops more than the required quantity for 2 hrs. at room temp. with occasional stirring.

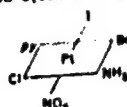
*2/L A.D. GELMAN E.F. KARLOVASHOVA
L. N. ESEN*

filter, evap. the filtrate, and recrystallize at least twice
from hot H_2O , to obtain $\begin{bmatrix} Py & Br \\ NH_2 & Cl \end{bmatrix}$ (VIII). V,
prismatic, lemon-yellow crystals, $n_D^{20} 1.770$, $n_D^{25} 1.770$,
 $n_D^{30} 1.507$, soly. in H_2O at 20° 0.019 g./100 g. of soln., decom-
poses approx. 224° , forms with thiourea $\begin{bmatrix} Py & Thio \\ Pt & Thio \end{bmatrix}$ X₁.
VII, rhombic, pale-yellow crystals, $n_D^{20} 1.770$, $n_D^{25} 1.770$, n_D^{30}
1.635, soly. in H_2O 0.184 g./100 g. of soln., decomposes ap-
prox. 200° , forms $\begin{bmatrix} Thio & Thio \\ Thio & Thio \end{bmatrix}$ X₂. VIII, light-yellow
fine-cryst., $n_D^{20} 1.770$, $n_D^{25} 1.762$, $n_D^{30} 1.508$, soly. in H_2O 0.145
g./100 g. of soln., decomposes approx. 185° , forms
 $\begin{bmatrix} Thio & Thio \\ Pt & Thio \end{bmatrix}$ X₁.

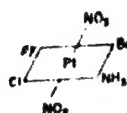
M. Hosh

CT ESSEN, L.N.

Complex compounds of quadrivalent platinum with six different substituents in the inner sphere. A. D. Gel'dman and L. N. Essen (N. S. Kurnakov Inst. Gen. Inorg. Chem. Acad. Sci. U.S.S.R., Moscow). *Doklady Akad. Nauk S.S.S.R.* 75, 693-6 (1950).—The



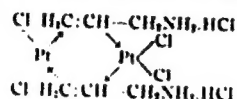
isomer of $[Pt(NO_2)_4(Br)(py)]$ (I) ($py = C_5H_5N$) was synthesized by first heating $trans-[Pt(NH_3)_4(Br)py]$ with HNO_3 which yielded



(II), bright-yellow, refractive indexes $n_D^{20} > 1.782$, $n_D^{25} = 1.75$, soly. in H_2O 0.033 g./100 g. soln. at 100° , stable up to 260° . On addn. of the calcul. amt. of KI to a boiling soln. of II, a dark-brown soln. was formed which, on cooling to room temp., gave a ppt. of dark-brown crystals, $n_D^{20} > 1.782$, with yellowish to black pleochroism, m. 231° (decompn.), soly. in H_2O , 0.004 g./100 g. soln. at 20° , easily sol. in alk. The analysis corresponds to I.

1951

Complex compounds of platinum with allylamine. A. D. Mel'man and L. N. Essen (N. S. Kurnakov Inst. Gen. and Inorg. Chem., Acad. Sci. U.S.S.R., Moscow). *Doklady Akad. Nauk S.S.S.R.* 77, 273-8 (1951).—Reaction of a neutral soln. of K_2PtCl_6 with $CH_2=CHCH_2NH_2$ (I) gives the salt $[PtCl_2I_2]$ (II) dark-yellow, stable on heating with H_2O , sparingly sol., dissolving in NH_4OH with a reddish brown color. That soln. in NH_4OH , acidified with HCl , gives with K_2PtCl_6 a dirty-green ppt. of $[(NH_4)_2PtI_2][PtCl_2]$. These reactions prove that in II, the double bond of I takes no part in the complex formation; I is bound to the Pt only by the NH_2 group. Addn. of I to the Pt atom through the double bond takes place on heating in an acid medium or on prolonged reaction at room temp. Thus, heating of a strongly acid soln. of K_2PtCl_6 with I gives a golden-yellow soln., which on cooling ppts. golden-yellow crystals of a dimer $[ClPtCH=CHCH_2NH_2HCl]_2$ (III); to this structure



is assigned by analogy with C_2H_2 and $PhCH=CH_2$ compds. Heating with H_2O produces a Pt mirror; this indicates bonding through the double bond. Prolonged heating of III with 10% HCl gives the Zeise-type acid $H[Cl_2PtI.HCl]$ (IV), which on careful neutralization with 5% $NaOH$ forms a canary-yellow ppt. of $[Cl_2PtI]$ (V), obviously a cyclic complex, $\left[\begin{array}{c} Cl \quad CH_2:CH \\ | \quad | \\ Pt \\ | \quad | \\ Cl \quad NH_2CH_2 \end{array} \right]$, giving metallic Pt on boiling with H_2O . This structure is confirmed by the synthesis $NH_4[Cl_2PtC_2H_3]$ (Zeise's salt) + $I.HCl \rightarrow NH_4[Cl_2PtI.HCl]$ + C_2H_4 (evolved), followed by $NH_4[Cl_2PtI.HCl] + NaOH \rightarrow V$.
N. Thon

1956, L.S.

1956, L.S. -- "Obtaining Complex Compounds of Hexavalent Platinum with Six Different Substitutions in the Internal Sphere." Acad Sci USSR. Inst of General and Inorganic Chemistry and L.S. Kurnakov. Inst of Physical Chemistry. Moscow, 1956 (Dissertation for the Degree of Candidate in Chemical Sciences.)

SO: Knizhnaya Letopis, No 9, 1956

